

Comparisons of Job Characteristics

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Foresters (19-1032)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Foresters (19-1032)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Biology	3.7	12.8	16.2	>> Current knowledge level is likely more than sufficient
Geography	3.9	9.0	14.3	>> Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Foresters (19-1032)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Monitoring	9.9	16.7	11.4	<< Extensive development of skills in this area may be required
Coordination	9.1	15.4	10.7	<< Extensive development of skills in this area may be required
Judgment and Decision Making	9.4	15.1	11.2	<< Extensive development of skills in this area may be required
Systems Analysis	6.5	14.6	9.3	<< Extensive development of skills in this area may be required
Complex Problem Solving	9.1	14.5	10.8	<< Extensive development of skills in this area may be required
Systems Evaluation	6.4	12.6	8.7	<< Extensive development of skills in this area may be required
Time Management	8.9	12.5	9.0	<< Extensive development of skills in this area may be required

Negotiation	6.8	11.9	8.5	<<	Extensive development of skills in this area may be required
Management of Personnel Resources	6.9	11.8	8.6	<<	Extensive development of skills in this area may be required
Management of Material Resources	3.7	7.5	4.7	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 94			
Focus Occupation: Conservation Scientists (19-1031) Associated Occupation: Foresters (19-1032)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Problem Sensitivity	11.1	14.8	13.0	<	Some improvement in abilities may be required
Category Flexibility	9.0	13.0	10.2	<	Some improvement in abilities may be required
Originality	7.6	12.6	10.1	<	Some improvement in abilities may be required
Time Sharing	6.6	8.4	7.1	<	Some improvement in abilities may be required
Spatial Orientation	2.7	8.3	5.0	<<	Extensive improvement in abilities may be required
Dynamic Strength	3.5	6.6	4.4	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 91
Focus Occupation: Conservation Scientists (19-1031) Associated Occupation: Foresters (19-1032)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Advise clients or customers	19	
Advise governmental or industrial personnel	28	
Analyze biological research, test, or analysis data	70	
Analyze ecosystem data	69	
Analyze scientific research data or investigative findings	27	
Classify plants, animals, or other natural phenomena	69	
Collect scientific or technical data	30	
Collect statistical data	47	
Communicate technical information	4	

Conduct field research or investigative studies	52
Conduct training for personnel	30
Confer with engineering, technical or manufacturing personnel	25
Confer with research personnel	50
Confer with scientists	54
Develop or maintain databases	30
Develop plans for programs or projects	31
Develop policies, procedures, methods, or standards	21
Develop tables depicting data	33
Direct and coordinate activities of workers or staff	3
Direct and coordinate scientific research or investigative studies	27
Direct implementation of new procedures, policies, or programs	60
Ensure compliance with government regulations	76
Estimate population or condition of plant life, fish, or wildlife	92
Explain complex mathematical information	30
Interpret aerial photographs	69
Judge soil conditions	77
Make decisions	24
Make presentations	13
Operate forestry equipment	92
Perform statistical analysis	71
Plan construction of structures or facilities	75
Plan forestation, reforestation, or range revegetation projects	95
Plan scientific research or investigative studies	48
Prepare reports	8
Prepare technical reports or related documentation	22
Provide advice on rural or urban land use	92
Read maps	42
Read measuring or metering devices used in forestry	89
Recognize plant diseases	72
Recognize tree or forest plant species	78
Recognize wood species characteristics	78
Recommend action to ensure compliance	73
Recommend further study or action based on research data	60
Record test results, test procedures, or inspection data	48
Use biological research techniques	68
Use computers to enter, access or retrieve data	3
Use cost benefit analysis techniques	77
Use fire suppression techniques	89
Use forest fire protection methods	89
Use forestry, range, or other public land management techniques	92
Use government regulations	44
Use herbicides, fertilizers, pesticides or related products	71
Use knowledge of environmental laws and regulations	76
Use knowledge of investigation techniques	16
Use knowledge of relevant laws	77
Use library or online Internet research techniques	21
Use long term forest or range land planning techniques	95

Use mathematical or statistical methods to identify or analyze problems	30
Use pollution control techniques	62
Use project management techniques	47
Use public speaking techniques	13
Use quantitative research methods	35
Use relational database software	26
Use scientific research methodology	21
Use spreadsheet software	18
Use word processing or desktop publishing software	17
Write business project or bid proposals	48
Write scholarly or technical research papers	36

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Conservation Scientists (19-1031)

Associated Occupation: Foresters (19-1032)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.